IN THE CLAIMS

Please amend the claims as follows, substituting any amended claim(s) for the corresponding pending claim(s):

- 1 1. (Previously Presented) A method for isolating a channel of interest from a set of channels from a
- 2 plurality of multimedia sources that include a video network and a local media player, in a multimedia
- 3 system that includes a multimedia server that is coupled to the plurality of multimedia sources, wherein at
- 4 least one of the set of channels includes data from the local media player, the method comprises:
- 5 receiving the set of channels as a stream of data via a communication path from the multimedia
- 6 server;
- 7 interpreting segments of the stream of data to identify data of the channel of interest;
- 8 interpreting the data of the channel of interest to determine type of the data;
- 9 processing the data of the channel of interest based on the type of data to produce processed data;
- 10 and
- providing the processed data for display.
- 1 2. (Original) The method of claim 1 further comprises:
- 2 receiving the stream of data in packets that include a header portion and a payload portion; and
- interpreting the header portion to determine which of the packets contain the data of the channel
- 4 of interest.
- 1 3. (Original) The method of claim 2, wherein the interpreting the data to determine the type of data
- 2 further comprises:
- 3 interpreting at least one of: the header portion and a header section of the payload portion to
- 4 determine the type of data.
- 1 4. (Original) The method of claim 3, wherein the processing the data further comprises:
- when the type of data is video data, converting the data of the channel of interest into at least one
- 3 of: YUV data and RGB data; and
- 4 storing the at least one of the YUV data and the RGB data in a frame buffer to produce the
- 5 processed data.

- 1 5. (Original) The method of claim 4, wherein the providing the processed data further comprises:
- 2 retrieving the at least one of the YUV data and the RGB data from the frame buffer at a display
- 3 rate to produce retrieved display data; and
- 4 rendering the retrieved display data for display.
- 1 6. (Original) The method of claim 4 further comprises:
- 2 Huffman decoding the video data to produce Huffman decoded data;
- de-zigzagging the Huffman decoded data to produce de-ZZ data;
- 4 de-quantizing the de-ZZ data to produce de-Q data;
- 5 performing an inverse discrete cosine transform function upon the de-Q data to produce IDCT
- 6 data; and
- 7 performing at least one of motion compensation and scaling upon the IDCT data to produce the
- 8 YUV data.
- 1 7. (Original) The method of claim 6 further comprises:
- 2 converting the YUV data into the RGB data; and
- 3 storing the at least one of the YUV data and the RGB data.
- 1 8. (Original) The method of claim 3, wherein the processing the data further comprises:
- when the type of data is audio data, converting the data of the channel of interest into pulse code
- 3 modulation (PCM) data; and
- 4 storing the PCM data in a frame buffer to produce the processed data.
- 9. (Original) The method of claim 8, wherein the providing the processed data further comprises:
- 2 retrieving the PCM data from the frame buffer at a display rate to produce retrieved display data;
- 3 and
- 4 providing the retrieved display data to at least one speaker assembly.
- 1 10. (Original) The method of claim 3, wherein the processing the data further comprises:
- when the type of data is application data, storing the application data in memory to produce the
- 3 processed data.

- 1 11. (Original) The method of claim 10, wherein the providing the processed data further comprises:
- 2 retrieving the processed data from memory;
- 3 providing the processed data to a processor;
- 4 generating, by the processor, video data from the processed data; and
- 5 providing the video data to a display.
- 1 12. (Original) The method of claim 1 further comprises:
- 2 receiving the stream of data in frames that include a frame header and a frame payload; and
- interpreting the frame header to determine which of the frames contain the data of the channel of
- 4 interest.
- 1 13. (Original) The method of claim 1 further comprises:
- 2 transmitting a channel selection request, wherein the channel selection request identifies the
- 3 channel of interest.
- 1 14. (Original) The method of claim 1, wherein the receiving the stream of data further comprises:
- 2 decoding the stream of data to recapture data of a channel of interest.
- 1 15. (Original) The method of claim 14, wherein the decoding further comprises at least one of:
- 2 multilevel decoding of the stream of data;
- 3 non return to zero (NRZ) decoding of the stream of data;
- 4 Manchester decoding of the stream of data;
- 5 block decoding of the stream of data; and
- 6 nB/mB decoding of the stream of data, where n < m.
- 1 16. (Withdrawn) A method for a client module to provide a channel selection request in a multimedia
- 2 system, the method comprises:
- 3 receiving an input signal from a client;
- 4 interpreting the input signal to determine type of signal;
- 5 when the type of signal is a control information, determining whether the control information
- 6 relates to a local command or a system-level command;
- 7 when the control information relates to a system-level command, processing the control
- 8 information for conveyance to a multimedia server to produce a control message; and
- 9 transmitting the control message to the multimedia server.

- 1 17. (Withdrawn) The method of claim 16, wherein the receiving the input signal further comprises:
- 2 receiving the input signal via an interface with the client, wherein the client includes at least one
- 3 of: a personal computer, a laptop computer, a person digital assistant, a video telephone, a digital
- 4 telephone, a cellular telephone, a monitor, a television, a high definition television, a printer, and a
- 5 facsimile machine.
- 1 18. (Withdrawn) The method of claim 16, wherein the receiving the input signal further comprises:
- 2 receiving the input signal via a wireless communication path from a remote control device of the
- 3 client.
- 1 19. (Withdrawn) The method of claim 16, wherein the determining whether the control information
- 2 relates to a local command or a system-level command further comprises:
- determining that the control information includes a channel selection request for a channel of
- 4 interest;
- 5 determining whether a current set of channels includes the channel of interest; and
- 6 when the current set of channels includes the channel of interest, locally processing the input
- 7 signal to provide the channel of interest to the client.
- 1 20. (Withdrawn) The method of claim 19 further comprises:
- when the current set of channels does not include the channel of interest, preparing the control
- 3 message to request selection of the channel of interest.
- 1 21. (Withdrawn) The method of claim 16, wherein the processing the control information for
- 2 conveyance to the multimedia server further comprises:
- 3 encoding the control message based on a data conveyance protocol of the multimedia system to
- 4 produce an encoded control message.
- 1 22. (Withdrawn) The method of claim 21, wherein the encoding further comprises:
- 2 packetizing data of the control message into a packet that includes a header section and a data
- 3 section, wherein the header section includes at least one of: identity the client, type of message,
- 4 encryption enable/disable, type of encryption, compression enable/disable, type of compression, and
- 5 packet sequence number.

- 1 23. (Withdrawn) The method of claim 22 further comprises:
- 2 conveying the packet using at least one of: Carrier Sense Multiple Access (CSMA), CSMA with
- 3 collision avoidance, and CSMA with collision detection.
- 1 24. (Withdrawn) The method of claim 21, wherein the encoding further comprises:
- 2 framing data of the control message into a frame that includes header section and a data section,
- 3 wherein the header section includes at least one of identity the client, type of message, encryption
- 4 enable/disable, type of encryption, compression enable/disable, type of compression, and frame number.
- 1 25. (Withdrawn) The method of claim 24 further comprises:
- 2 conveying the frame in accordance with at least one of: a time division multiplexing data
- 3 conveyance protocol, and frequency division multiplexing data conveyance protocol.
- 1 26. (Withdrawn) The method of claim 21, wherein the encoding further comprises at least one of:
- 2 multilevel encoding data of the control message;
- 3 non return to zero (NRZ) encoding the data of the control message;
- 4 Manchester encoding the data of each of the control message;
- 5 block encoding the data of each of the control message; and
- 6 nB/mB encoding the data of each of the control message, where $n \le m$.
- 1 27. (Withdrawn) The method of claim 16 further comprises:
- when the type of signal is an audio signal, processing the audio signal to produce generic audio
- 3 data;
- 4 converting the generic audio data into a stream of data;
- 5 and
- 6 transmitting the stream of data to the multimedia server.
- 1 28. (Withdrawn) The method of claim 27, wherein the converting the generic audio data into the
- 2 stream of data further comprises:
- 3 encoding the generic audio data based on a data conveyance protocol of the multimedia system to
- 4 produce the stream of data.

- 29. (Withdrawn) The method of claim 27, wherein the processing the audio data further comprises at 1 2 least one of: 3 converting the audio data into MPG formatted audio data; 4 converting the audio data into MP3 formatted audio data; and 5 converting the audio data into PCM digitized audio data. 30. 1 (Withdrawn) The method of claim 16 further comprises: 2 when the type of signal is a video signal, processing the video signal to produce generic video 3 data; 4 converting the generic video data into a stream of data; and 5 transmitting the stream of data to the multimedia server. 31. 1 (Withdrawn) The method of claim 30, wherein the converting the generic video data into the 2 stream of data further comprises: 3 encoding the generic video data based on a data conveyance protocol of the multimedia system to 4 produce the stream of data. 5 32. (Withdrawn) The method of claim 30, wherein the processing the video signal further comprises 6 at least one of: 7 converting the video signal of the channel of interest into MPEG formatted video data; 8 converting the video signal of the channel of interest into JPEG formatted video data; 9 converting the video signal of the channel of interest into M-JPEG formatted video data; converting the video signal of the channel of interest into digital RGB video data; and 10 11 converting the video signal of the channel of interest into digital YCbCr video data.
 - 33. (Withdrawn) The method of claim 16 further comprises:

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- when the type of signal is application data, processing the input signal to produce processed application data; and
- 4 transmitting the processed application data to the multimedia server.

- 1 34. (Currently Amended) A client module for use in a multimedia system that includes a multimedia
- 2 server that is coupled to a plurality of multimedia sources including a video network and the Internet, the
- 3 client module comprises:
- 4 network interface controller operably coupled to receive encoded channel data that represents a
- set of channels via a communication path from the multimedia server, the set of channels including the set
- 6 of channels including at least one channel for providing a user with bidirectional access to the Internet,
- 7 wherein the network interface controller extracts data relating to a channel of interest from the encoded
- 8 channel data;
- 9 video decoder operably coupled to decode the data relating to the channel of interest to produce
- 10 decoded video data;
- memory operably coupled to store the decoded video data; and
- rendering module operably coupled to retrieve the decoded video data from the memory and to
- render video images from the decoded video data.
- 1 35. (Original) The client module of claim 34 further comprises:
- a display operably coupled to the rendering module, wherein the display displays the rendered
- 3 video images.
- 1 36. (Original) The client module of claim 34 further comprises:
- 2 host processor;
- 3 host memory; and
- 4 interface module operably coupled to the host processor, the host memory, and the rendering
- 5 module, wherein the host processor controls storing the rendered video images in the host memory,
- 6 controls displaying of the rendered video images, and controls selecting the channel of interest.
- 1 37. (Original) The client module of claim 34, wherein the network interface controller further
- 2 comprises:
- 3 transmitting module operably coupled to transmit a channel selection request.
- 1 38. (Original) The client module of claim 37 further comprises:
- 2 microphone for capturing audio signals; and
- audio processor operably coupled to convert the audio signals into digitized audio signals,
- 4 wherein the digitized audio signals are provided to the transmitting module.

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1	39.	(Original) The client module of claim 37 further comprises:	
2		video camera for capturing video signals; and	
3		video processor operably coupled to convert the video signals into digitized video data, wherein	
4	the di	gitized video data is provided to the transmitting module.	
1	40.	(Original) The client module of claim 34, wherein the network interface controller further	
2	comprises:		
3		carrier sense multiple access module for detecting internet data packets within the encoded	
4	channel data.		
1	41.	(Original) The client module of claim 34, wherein the video decoder further comprises:	
2		Huffman decoder operably coupled to decode the data relating to the channel of interest to	
3	produce Huffman decoded data;		
4		de-zigzagging module operably coupled to process the Huffman decoded data to produce de-ZZ	
5	data;		
6		de-quantizing module operably couple to process the de-ZZ data to produce de-Q data;	
7		inverse discrete cosine transform module operably coupled to perform an inverse discrete cosine	
8	transform function upon the de-Q data to produce IDCT data; and		
9		motion compensation and scaling module operably coupled to determine at least one of motion	
0	compe	ensation and scaling of the IDCT data to produce the YUV data as the decoded video data.	

1	42. (Previously Presented) An apparatus for isolating a channel of interest from a set of channels		
2	from a plurality of media sources including a media network, a local media player and the Internet, in a		
3	multimedia system that includes a multimedia server that is coupled to the plurality of media sources, the		
4	apparatus comprises:		
5	processing module; and		
6	memory operably coupled to the processing module, wherein the memory includes operational		
7	instructions that cause the processing module to:		
8	receive the set of channels as a stream of data as a stream of data from the multimedia		
9	server via a communication path;		
10	interpret segments of the stream of data to identify data of the channel of interest;		
11	interpret the data of the channel of interest to determine type of the data;		
12	process the data of the channel of interest based on the type of data to produce processed		
13	data; and		
14	provide the processed data for display.		
1	43. (Original) The apparatus of claim 42, wherein the memory further comprises operational		
2	instructions that cause the processing module to:		
3	receive the stream of data in packets that include a header portion and a payload portion; and		
4	interpret the header portion to determine which of the packets contain the data of the channel of		
5	interest.		
1	44. (Original) The apparatus of claim 43, wherein the memory further comprises operational		
2	instructions that cause the processing module to interpret the data to determine the type of data by:		
3	interpreting at least one of: the header portion and a header section of the payload portion to		
4	determine the type of data.		
1	45. (Original) The apparatus of claim 44, wherein the memory further comprises operational		
2	instructions that cause the processing module to process the data by:		
3	when the type of data is video data, converting the data of the channel of interest into at least one		
4	of: YUV data and RGB data; and		
5	storing the at least one of the YUV data and the RGB data in a frame buffer to produce the		
6	processed data.		

- 1 46. (Original) The apparatus of claim 45, wherein the memory further comprises operational
- 2 instructions that cause the processing module to provide the processed data by:
- 3 retrieving the at least one of the YUV data and the RGB data from the frame buffer at a display
- 4 rate to produce retrieved display data; and
- 5 rendering the retrieved display data for display.
- 1 47. (Original) The apparatus of claim 45, wherein the memory further comprises operational
- 2 instructions that cause the processing module to:
- 3 Huffman decode the video data to produce Huffman decoded data;
- 4 de-zigzag the Huffman decoded data to produce de-ZZ data;
- 5 de-quantize the de-ZZ data to produce de-Q data;
- 6 perform an inverse discrete cosine transform function upon the de-Q data to produce IDCT data;
- 7 and
- 8 perform at least one of motion compensation and scaling upon the IDCT data to produce the
- 9 YUV data.
- 1 48. (Original) The apparatus of claim 47, wherein the memory further comprises operational
- 2 instructions that cause the processing module to:
- 3 convert the YUV data into the RGB data; and
- 4 store the at least one of the YUV data and the RGB data.
- 1 49. (Original) The apparatus of claim 44, wherein the memory further comprises operational
- 2 instructions that cause the processing module to process the data by:
- when the type of data is audio data, converting the data of the channel of interest into pulse code
- 4 modulation (PCM) data; and
- 5 storing the PCM data in a frame buffer to produce the processed data.
- 1 50. (Original) The apparatus of claim 49, wherein the memory further comprises operational
- 2 instructions that cause the processing module to provide the processed data:
- 3 retrieving the PCM data from the frame buffer at a display rate to produce retrieved display data;
- 4 and
- 5 providing the retrieved display data to at least one speaker assembly.

- 1 51. (Original) The apparatus of claim 44, wherein the memory further comprises operational
- 2 instructions that cause the processing module to process the data by:
- 3 when the type of data is application data, storing the application data in memory to produce the
- 4 processed data.
- 1 52. (Original) The apparatus of claim 51, wherein the memory further comprises operational
- 2 instructions that cause the processing module to provide the processed data by:
- 3 retrieving the processed data from memory;
- 4 providing the processed data to a processor;
- 5 generating, by the processor, video data from the processed data; and
- 6 providing the video data to a display.
- 1 53. (Original) The apparatus of claim 42, wherein the memory further comprises operational
- 2 instructions that cause the processing module to:
- 3 receive the stream of data in frames that include a frame header and a frame payload; and
- 4 interpret the frame header to determine which of the frames contain the data of the channel of
- 5 interest.
- 1 54. (Original) The apparatus of claim 42, wherein the memory further comprises operational
- 2 instructions that cause the processing module to:
- 3 transmit a channel selection request, wherein the channel selection request identifies the channel
- 4 of interest.
- 1 55. (Original) The apparatus of claim 42, wherein the memory further comprises operational
- 2 instructions that cause the processing module to receive the stream of data:
- decoding the stream of data to recapture data of a channel of interest.
- 1 56. (Original) The apparatus of claim 55, wherein the memory further comprises operational
- 2 instructions that cause the processing module to decode by at least one of:
- 3 multilevel decoding of the stream of data;
- 4 non return to zero (NRZ) decoding of the stream of data;
- 5 Manchester decoding of the stream of data;
- 6 block decoding of the stream of data; and
- 7 nB/mB decoding of the stream of data, where n < m.

1	57.	(Withdrawn) An apparatus for providing a channel selection request in a multimedia system, the	
2	apparatus comprises:		
3		processing module; and	
4		memory operably coupled to the processing module, wherein the memory includes operational	
5	instru	ctions that cause the processing module to:	
6		receive an input signal from a client;	
7		interpret the input signal to determine type of signal;	
8		when the type of signal is a control information, determine whether the control	
9	information relates to a local command or a system-level command;		
10		when the control information relates to a system-level command, process the control	
11		information for conveyance to a multimedia server to produce a control message; and	
12		transmit the control message to the multimedia server.	
1	58.	(Withdrawn) The apparatus of claim 57, wherein the memory further comprises operational	
2	instructions that cause the processing module to receive the input signal by:		
3		receiving the input signal via an interface with the client, wherein the client includes at least one	
4	of: a personal computer, a laptop computer, a person digital assistant, a video telephone, a digital		
5	telephone, a cellular telephone, a monitor, a television, a high definition television, a printer, and a		
6	facsin	nile machine.	
1	59.	(Withdrawn) The apparatus of claim 57, wherein the memory further comprises operational	
2	instructions that cause the processing module to receive the input signal by:		
3		receiving the input signal via a wireless communication path from a remote control device of the	
4	client.		

- 1 60. (Withdrawn) The apparatus of claim 57, wherein the memory further comprises operational
- 2 instructions that cause the processing module to determine whether the control information relates to a
- 3 local command or a system-level command by:
- 4 determining that the control information includes a channel selection request for a channel of
- 5 interest;
- 6 determining whether a current set of channels includes the channel of interest; and
- 7 when the current set of channels includes the channel of interest, locally processing the input
- 8 signal to provide the channel of interest to the client.
- 1 61. (Withdrawn) The apparatus of claim 60, wherein the memory further comprises operational
- 2 instructions that cause the processing module to:
- when the current set of channels does not include the channel of interest, prepare the control
- 4 message to request selection of the channel of interest.
- 1 62. (Withdrawn) The apparatus of claim 57, wherein the memory further comprises operational
- 2 instructions that cause the processing module to process the control information for conveyance to the
- 3 multimedia server by:
- 4 encoding the control message based on a data conveyance protocol of the multimedia system to
- 5 produce an encoded control message.
- 1 63. (Withdrawn) The apparatus of claim 62, wherein the memory further comprises operational
- 2 instructions that cause the processing module to encode the control message by:
- packetizing data of the control message into a packet that includes a header section and a data
- 4 section, wherein the header section includes at least one of: identity the client, type of message,
- 5 encryption enable/disable, type of encryption, compression enable/disable, type of compression, and
- 6 packet sequence number.
- 1 64. (Withdrawn) The apparatus of claim 63, wherein the memory further comprises operational
- 2 instructions that cause the processing module to:
- 3 convey the packet using at least one of: Carrier Sense Multiple Access (CSMA), CSMA with
- 4 collision avoidance, and CSMA with collision detection.

- 1 65. (Withdrawn) The apparatus of claim 62, wherein the memory further comprises operational
- 2 instructions that cause the processing module to encode the control message by:
- framing data of the control message into a frame that includes header section and a data section,
- 4 wherein the header section includes at least one of identity the client, type of message, encryption
- 5 enable/disable, type of encryption, compression enable/disable, type of compression, and frame number.
- 1 66. (Withdrawn) The apparatus of claim 65, wherein the memory further comprises operational
- 2 instructions that cause the processing module to:
- 3 convey the frame in accordance with at least one of: a time division multiplexing data
- 4 conveyance protocol, and frequency division multiplexing data conveyance protocol.
- 1 67. (Withdrawn) The apparatus of claim 62, wherein the memory further comprises operational
- 2 instructions that cause the processing module to encode the control message by at least one of:
- 3 multilevel encoding data of the control message;
- 4 non return to zero (NRZ) encoding the data of the control message;
- 5 Manchester encoding the data of each of the control message;
- 6 block encoding the data of each of the control message; and
- 7 nB/mB encoding the data of each of the control message, where n < m.
- 1 68. (Withdrawn) The apparatus of claim 57, wherein the memory further comprises operational
- 2 instructions that cause the processing module to:
- 3 when the type of signal is an audio signal, process the audio signal to produce generic audio data;
- 4 convert the generic audio data into a stream of data;
- 5 and
- 6 transmit the stream of data to the multimedia server.
- 1 69. (Withdrawn) The apparatus of claim 68, wherein the memory further comprises operational
- 2 instructions that cause the processing module to convert the generic audio data into the stream of data by:
- 3 encoding the generic audio data based on a data conveyance protocol of the multimedia system to
- 4 produce the stream of data.

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application data; and

70. (Withdrawn) The apparatus of claim 68, wherein the memory further comprises operational 1 2 instructions that cause the processing module to process the audio data by at least one of: 3 converting the audio data into MPG formatted audio data; 4 converting the audio data into MP3 formatted audio data; and 5 converting the audio data into PCM digitized audio data. 1 71. (Withdrawn) The apparatus of claim 57, wherein the memory further comprises operational 2 instructions that cause the processing module to: 3 when the type of signal is a video signal, process the video signal to produce generic video data; 4 convert the generic video data into a stream of data; 5 and 6 transmit the stream of data to the multimedia server. 1 72. (Withdrawn) The apparatus of claim 71, wherein the memory further comprises operational 2 instructions that cause the processing module to convert the generic video data into the stream of data by: 3 encoding the generic video data based on a data conveyance protocol of the multimedia system to 4 produce the stream of data. 1 73. (Withdrawn) The apparatus of claim 71, wherein the memory further comprises operational 2 instructions that cause the processing module to process the video signal by at least one of: 3 converting the video signal of the channel of interest into MPEG formatted video data; 4 converting the video signal of the channel of interest into JPEG formatted video data; 5 converting the video signal of the channel of interest into M-JPEG formatted video data; 6 converting the video signal of the channel of interest into digital RGB video data; and 7 converting the video signal of the channel of interest into digital YCbCr video data. 1 74. (Withdrawn) The apparatus of claim 57, wherein the memory further comprises operational 2 instructions that cause the processing module to: 3 when the type of signal is application data, process the input signal to produce processed

transmit the processed application data to the multimedia server.